

Application/Control Number: 09/922,115
Group Art Unit: 2877

IN THE CLAIMS

Please amend the claims to read as indicated herein. A version of the amended claims with markings to show changes made is included at the end of this document.

C1 1. (Thrice amended) A wavelength-determining unit for determining the wavelengths of a plurality of successive optical signals $\lambda(t)$ having a wavelength variation over time, comprising:

a wavemeter unit for determining first wavelength values $\lambda_1(t)$ having a wavelength variation over time for the optical signals $\lambda(t)$,

an absolute-measuring unit having unambiguous wavelength properties at known absolute wavelength values, and for determining second wavelength values $\lambda_2(t)$ having a wavelength variation over time as such of the known absolute wavelength values covered by the optical signals $\lambda(t)$, and

an evaluation unit for receiving the determined first $\lambda_1(t)$ and second $\lambda_2(t)$ wavelength values and for providing corrected wavelength values $\lambda_1'(t)$ having a wavelength variation over time based on a comparison of the determined first $\lambda_1(t)$ and second $\lambda_2(t)$ wavelength values over time.

7. (Thrice amended) A measuring unit for measuring an optical characteristic of a device under test, comprising:

C2 a wavelength variable laser source for providing an optical signal $\lambda(t)$ to the device under test, the optical signal $\lambda(t)$ having a wavelength variation over the time;

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C 2
cont.

a wavelength-determining unit for receiving the optical signal $\lambda(t)$ and determining wavelength values $\lambda_1(t)$ thereof over the time, said wavelength determining unit comprising a wavemeter unit for determining first wavelength values $\lambda_1(t)$ having a wavelength variation over time for the optical signals $\lambda(t)$, an absolute-measuring unit having unambiguous wavelength properties at known absolute wavelength values, and for determining second wavelength values $\lambda_2(t)$ having a wavelength variation over time as such of the known absolute wavelength values covered by the optical signals $\lambda(t)$, and a first evaluation unit for receiving the determined first $\lambda_1(t)$ and second $\lambda_2(t)$ wavelength values having a wavelength variation over time and for providing corrected wavelength values $\lambda_1'(t)$ having a wavelength variation over time based on a comparison of the determined first $\lambda_1(t)$ and second $\lambda_2(t)$ wavelength values;

a receiver for receiving a signal response on the optical signal $\lambda(t)$ provided to the device under test; and

a second evaluation unit receiving the signal response and the thereto corresponding determined wavelength values $\lambda_1'(t)$ having a wavelength variation over time.

8. (Thrice amended) A measuring unit for measuring an optical characteristic of a device under test, comprising:

a wavelength variable laser source for providing an optical signal $\lambda(t)$ to the device under test, the optical signal $\lambda(t)$ having a wavelength variation over the time,